

CONFIDENTIAL

16 April 1957

MEMORANDUM FOR: Office of Legislation/Development Division/Contract Bureau

SUBJECT: Request for Initiation of Task II under Contract NS-112

1. It is requested that your office make the necessary arrangements to establish Task II under Contract NS-112

2. This task is for the design, development, fabrication, and qualification testing of an explosives initiating device to permit the pilot of aircraft to destroy, during an emergency, selected classified items on board the aircraft.

3. The total cost of this program has been estimated at \$12,650.00, including fee, for a six months period. All costs incurred under this program will be charged against Allotment Number 7-0300-10.

4. Contract NS-112 is an Agency sterile contract. Task II should also be Agency sterile; however, Government interest may be shown. The device is unclassified per se. Agency interest in all work and material under the contract and task is classified Secret and may be divulged only on a need-to-know basis to appropriate security approved individuals.

The Contracting Officer is requested to advise the contractor's representative in writing of these security classifications.

In the event of any variation in classification during the preliminary phases of the work, further guidance will be provided by the Project Engineer.

5. Further information concerning this program may be obtained from the project engineer, Room 212, West Building, extension

DOC	6	REV DATE	020780	BY	016956
ORIG COMP	056	REV	56	CLASS	02
ORIG CLASS	5	REV CLASS	5		
JUST	22	NEXT REV	262	AUTH	HR 10-2

Chief
NS/Engineering Division

Attachments:

NS-112-07-3175-37

Contract Suspended 4/4/57

APPROVED FOR THE DELEGATION OF FUNDS:

Research Director

Distribution:

Orig & 1 - Addressee	1 NS/LB
1 - Comptroller	1 NS/FAED
1 - NS/OC	1 NS/DOO
1 - NS/NSB	1 - NS Chrono
1 - NS-174 ✓	1 - [] File

Date

TO: P/TG/NS/NS

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Declassified in Part - Sanitized Copy Approved for Release 2012/05/31 : CIA-RDP78-03642A001700020006-5

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UNCLASSIFIED		CONF	NTIAL	SECRET
(SENDER WILL CIRCLE CLASSIFICATION TOP AND BOTTOM)				
CENTRAL INTELLIGENCE AGENCY OFFICIAL ROUTING SLIP				
TO		INITIALS	DATE	
1	<i>Ed.</i>			
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FROM		INITIALS	DATE	
1				
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3				

☐ APPROVAL
☐ ACTION
☐ COMMENT
☐ CONCURRENCE

☐ INFORMATION
☐ DIRECT REPLY
☐ PREPARATION OF REPLY
☐ RECOMMENDATION

☐ SIGNATURE
☐ RETURN
☐ DISPATCH
☐ FILE

Remarks

will call you regarding the items for the work

H/T

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25X1

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Statement of Work

This proposal is for the design, development, fabrication, and qualification testing of an explosives initiating device which shall have the following characteristics:

1. Be wholly contained in a weathertight enclosure with dimensions 6" x 5-3/4" x 4".
2. Be designed to prevent accidental initiation by requiring simultaneous two-handed actuation.
3. Provide a reliable time delay of at least 30 seconds between actuation and initiation.
4. Initiate two strands of primacord through reliable, independent explosive trains.
5. Pass environmental tests necessary for qualification under Military Specification MIL-E-5272A, "Environmental Testing, Aeronautical and Associated Equipment, General Specification For."
6. Be designed to permit surveillance and replacement of explosive and pyrotechnic components periodically.
7. Be detonator safe; that is, initiation of the detonators in the safe position shall not initiate

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succeeding elements in the explosive train, nor shall such initiation throw fragments or particles from the weathertight enclosure.

We propose to fabricate forty (40) complete units, of which twenty-five (25) will be expended in qualification tests. A tentative test program for the twenty-five (25) units is shown on Drawing A10657. In addition, we propose to fabricate and test such parts and components as are necessary to prove the design during development. Fifteen (15) certified units will be delivered to the contracting agency.

Monthly letter reports will be submitted to the contracting agency which will describe briefly the work accomplished and tests performed during the month. Each report will include an expenditure and fund status statement for the end of the month reported. A final report will be submitted in triplicate which will contain reproducible detail and assembly drawings of the qualified initiator, a summary of test results, and complete operating instructions for the device. The part of the report which gives operating instructions will be bound separately, and will be suitable for reproduction.

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Allocation of Funds

It is estimated that the project described
in the Statement of Work will require expenditures as
follows:

Labor

Engineering - 500 hrs.
Design - 350 hrs.
Shop - 500 hrs.

Overhead

Materials

Explosives and Pyrotechnics
Inert Material

Test Facility Rental

Travel

General and Administrative

Fee

25X1

25X1

25X1

\$18,690.50

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QUALIFICATION TEST		SECRET CONFIDENTIAL	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	TRANSPORTATION VIBRATION	TRANSPORTATION VIBRATION	TRANSPORTATION VIBRATION
TEMP & HUMIDITY	3 4 9 10	19 20	19 20 21 22
SALT SPRAY	SHOCK	ACCELERATION	WATER IMMERSION
FUNCTIONING TIME DELAY	9 10	VIBRATION	5 6 19 20
1 2 7 8	11 12	HIGH TEMP	1 2 13 14
5 6	13 14 15 16 19 20	LOW TEMP	FUNCTIONING TIME DELAY
13 14 15 16	ALTITUDE	7 15 21 22 23 8 16 24 25	8 16 24 25
FUNCTIONING TIME DELAY	7 15 21 22 23	FUNCTIONING TIME DELAY	DETONATOR SAFETY
EXPLOSIVE TRAINS INITIATED IN "SAFE" POSITION. UNIT IS SAFE IF BOOSTER IS NOT INITIATED AND NO FRAGMENTS ARE THROWN.			
ALL TESTS TO BE PERFORMED IN ACCORDANCE WITH MIL-E-5272A			
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SYM.	NUMBER	DATE	
REVISIONS			
EXPLOSIVE INITIATION DEVICE 25X1 QUALIFICATION TEST			
DATE 27-MARCH-1957		NO. A10657	
NEXT ASSY		USED ON	
APPLICATION			
SCALE			
DRAWN BY A.J.R.			
CHECKER			
CHF. DRFTSMN.			
PROJECT ENG.			
CHF. ENG. <i>Boz</i>			
SHEET OF			